ANIONIC SURFACTANTS AS MBAS
SM 20th Ed. 5540 C

Facility Name:_____VELAP ID_____

Assessor Name:_____Analyst Name:_____Inspection Date_____

Relevant Aspect of Standards	Method Reference	Y	N	N/A	Comments
Records Examined: SOP Number/ Revision/ Date _____ Analyst:_____ Sample ID: _____ Date of Sample Preparation:_____ Date of Analysis:_____					
Were stock LAS solutions made so that 1 mL of them contained 1 mg LAS and prepared weekly?	3.a				
Were standard LAS solutions made so the 1 mL of them contained 10 µg LAS and prepared daily?	3.b				
Were methylene blue reagents composed of 100 mg methylene blue and 41 mL 6N H_2SO_4 and 50 g $NaH_2PO_4 \cdot H_2O$ in 1000 mL H_20?	3.g				
Were wash solutions composed of 41 mL 6N H_2SO_4 and 50 g $NaH_2PO_4 \cdot H_2O$ in 1000 mL?	3.h				
Was reagent grade water used MBAS-free?	4.i				
Were calibration curves composed of at least 5 standards?	4.a				
Did calibration curves have correlation coefficients of 0.995 or better?	4.a				
Were check standards at the reporting limit analyzed daily?	4.a				
Were check standards above expected sample concentration analyzed daily?	4.a				
Did check standards at the reporting limit fall within ±25% of original values?	4.a				
Did other check standards fall within ±10% of original value?	4.a				
Were samples where interferences were expected sublated by extracting with methanol and nitrogen gas and then heating to dryness prior to the re-addition of water?	4.b				
Were samples made alkaline after placing in separatory funnels by the addition of 1N NaOH with the use of phenolphthalein indicator?	4.b				
Notes/Comments:					

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Were a few drops of 30% H_2O_2 added to samples where sulfides decolorized methylene blue?	4.c				
Did samples then have their pink color discharged by the addition of 1N H_2SO_4?	4.d.1				
If at any time after the addition of 25 mL of methlyene blue reagent any samples lost their blue color during extraction, were such samples discarded, and extraction repeated with smaller volumes?	4.d.2 4.d.3				
If consistent emulsions formed during extractions with $CHCl_3$, were those emulsions broken by addition of <10 mL of isopropyl alcohol, and then was that same volume of isopropyl alcohol added to all standards?	4.d.2				
Were samples extracted three times with $CHCl_3$?	4.d.3				
Were all three $CHCl_3$ extracts from each sample combined into a separatory funnel, shaken for 30 seconds with 50 mL of wash solution, and allowed to settle?	4.d.4				
Were $CHCl_3$ layers then drawn off from the separatory funnels through plugs of glass wool, and the wash solutions extracted twice with $CHCl_3$ with the $CHCl_3$ layers being drawn through the glass wool into the same vessel?	4.d.4				
Were aborbances of extracts determined at 652 nm against a blank of $CHCl_3$?	4.e				
Were calculations made correctly?	5				
Notes/Comments:					